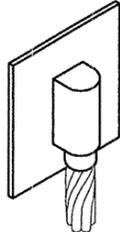


CABLE TO GROUND ROD

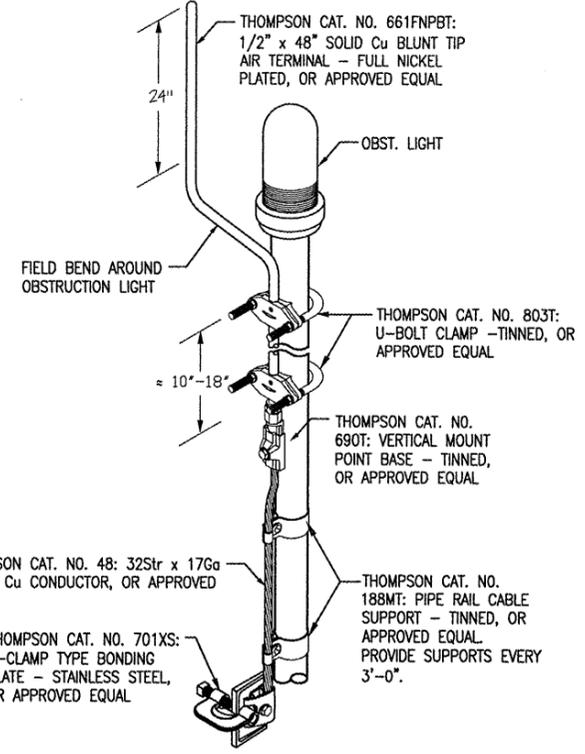


CABLE TO SURFACE

DETAIL NOTES

- EXOTHERMIC WELDS SHALL BE CADWELD AS MANUFACTURED BY ERICO PRODUCTS, SOLON, OHIO, ULTRAWELD AS MANUFACTURED BY HARGER LIGHTNING PROTECTION & GROUNDING EQUIPMENT, GRAYSLAKE, IL, OR THERMOWELD AS MANUFACTURED BY CONTINENTAL INDUSTRIES, TULSA, OKLAHOMA. VERIFY PROPER SIZES, MOLDS, TYPES, AND REQUIREMENTS FOR THE RESPECTIVE APPLICATION WITH THE MANUFACTURER, AND INSTALL PER THEIR DIRECTIONS.
- FOR APPLICATIONS TO GALVANIZED STEEL OR PAINTED STEEL, REMOVE GALVANIZING AND/OR PAINT & CLEAN THE SURFACE TO EXPOSE BARE STEEL BEFORE MAKING EXOTHERMIC WELD CONNECTION.
- VERIFY EXOTHERMIC MOLDS ARE SUITABLE FOR USE WITH THE RESPECTIVE TYPE (SOLID OR STRANDED) & SIZE CONDUCTOR.

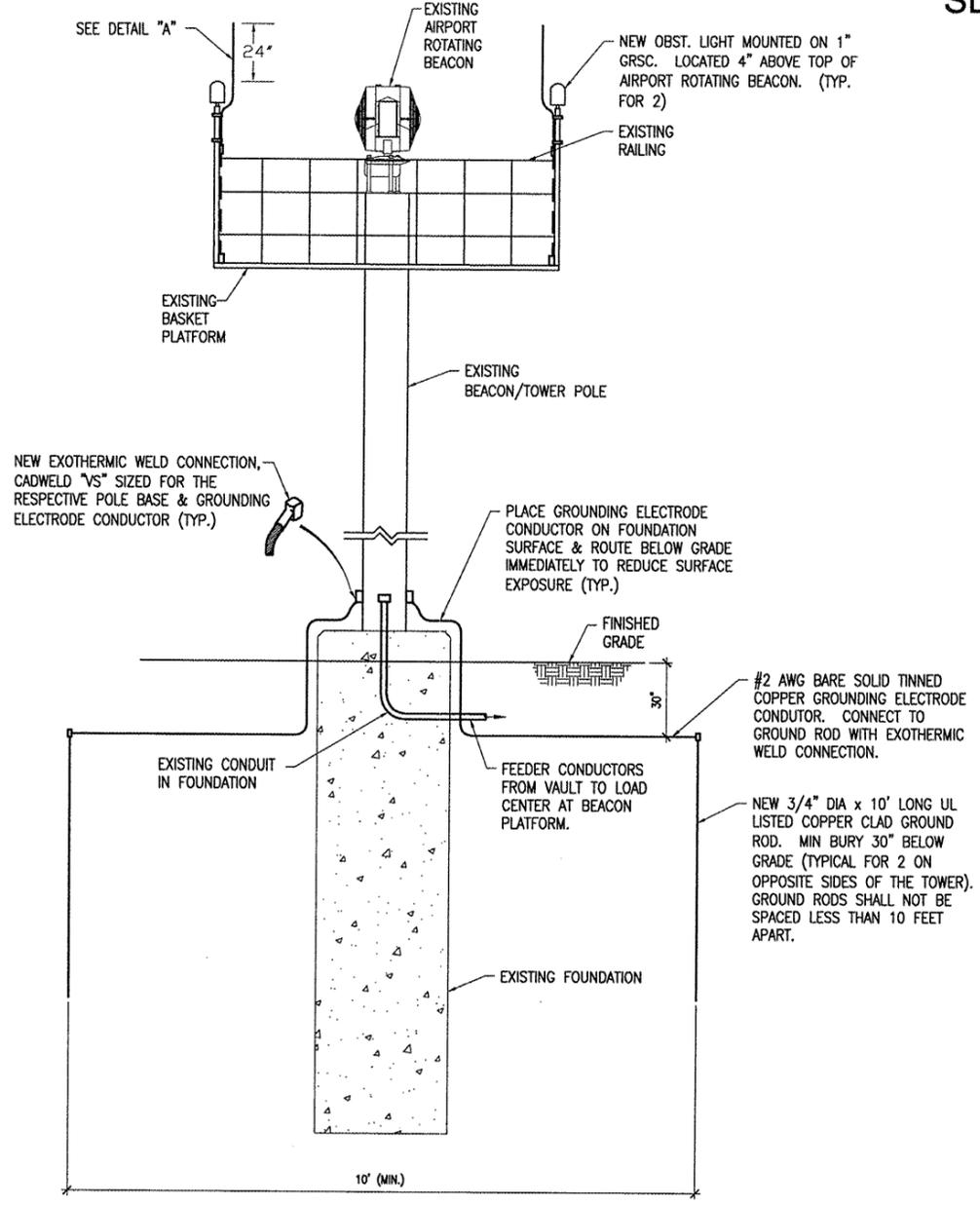
EXOTHERMIC WELD DETAILS



DETAIL A

NOTES

- REFERENCES TO THOMPSON ARE THOMPSON LIGHTNING PROTECTION INC., 901 SIBLEY MEMORIAL HWY, ST. PAUL, MN 55188, PHONE: 651-455-7661, 800-777-1230, FAX: 651-455-2545.
- VERIFY LIGHTNING PROTECTION COMPONENTS AND CATALOG NUMBERS WITH THE RESPECTIVE LIGHTNING PROTECTION EQUIPMENT MANUFACTURER.



LIGHTNING PROTECTION DETAIL FOR AIRPORT ROTATING BEACON

NTS

AIRPORT ROTATING BEACON PANEL						
CKT #	DUTY	SIZE		SIZE	DUTY	CKT #
1	AIRPORT ROTATING BEACON	15A 1P		30A 1P	SURGE PROTECTOR (PHASE A)	2
3	OBSTRUCTION LIGHTS	15A 1P		30A 1P	SURGE PROTECTOR (PHASE B)	4
5	BLANK				BLANK	6
7	SPARE	15A 1P			BLANK	8
9	BLANK				BLANK	10
11	BLANK				BLANK	12

125 AMP, 120/240 VAC, 1 PHASE, 3 WIRE, 12 CIRCUIT LOAD CENTER WITH CONVERTIBLE MAIN LUGS IN A NEMA 3R RAIN PROOF ENCLOSURE, SQUARE D CAT. NO. Q0112L125GRB OR APPROVED EQUAL.

NOTES

- INCLUDE EQUIPT GROUND BAR KIT.
- ALL BREAKERS SHALL HAVE 10,000 AIC RATING AT 120/240 VAC.
- PHASE "A" SHALL BE SWITCHED THROUGH A LIGHTING CONTACTOR AT THE VAULT. PHASE "B" SHALL BE UNSWITCHED.
- INCLUDE ENGRAVED PHENOLIC LEGEND PLATE LABELED ARB PANEL, 120/240 VAC, 1PH, 3W, FED FROM VAULT.
- SURGE PROTECTORS SHALL BE SUITABLE FOR 120VAC, 1PH, 2W PLUS GROUND, 40KA SURGE CURRENT RATING, & STATUS INDICATION LIGHTS, JOSLYN MODEL 1260-21 OR SQUARE D TVS120XR40S, OR APPROVED EQUAL. FURNISH & INSTALL TWO SURGE PROTECTORS (ONE FOR EACH PHASE). WHERE SQUARE D TVS120XR40S IS PROVIDED CONNECT BOTH BLACK WIRES TO 1-POLE CIRCUIT BREAKER (SAME PHASE).

ALL WORK SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER ITEM AR800591 - UPGRADE AIRPORT ROTATING BEACON - PER L.S.

BY	REVISION	DATE

SAINT LOUIS DOWNTOWN AIRPORT
 A Division of Bi-State Development Agency
 A.I.P. PROJ.: 3-17-0039-B19

Hanson Project No. 84507ELED-0800	Scale NONE	Date 05/18/07
Drawn by KNL	Checked by KNL	06/25/07
Drawn by MW	Checked by MW	06/28/07
Reviewed by CAH	Checked by CAH	07/13/07

HANSON
 Hanson Professional Services Inc.
 4227 Earth City Expressway, Suite 130
 St. Louis, MO 63045-1308
 Offices Nationwide

ATCT INTERFACE TO VAULT
 LIGHTNING PROTECTION DETAILS FOR BEACON

JUL 25, 2008 9:39 AM V00RH00805
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